



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

10/791352

Confirmation No.:

2406

Applicant

Shashidhar Sathyanarayana

Filing Date

March 1, 2004

Title

System For Catheter Tracking Using Image Information

Group Art Unit

3737

Examiner

John F. Ramirez

Docket No.

701470.4074

Customer No.

34313

Commissioner for Patents PO Box 1450 Mail Stop Patent Application Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 CFR §§ 1.97 and 1.98, the items identified in this Information Disclosure Statement ("IDS") are brought to the attention of the Office. The items are listed on the attached form PTO-1449 and copies are enclosed for the convenience of the Examiner.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicant is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicant as such.

CERTIFICATE OF MAILING (37 CFR §1.8)

I hereby certify, pursuant to 37 CFR §1.8, that I have reasonable basis to expect that this paper or fee (along with any referred to as being attached or enclosed) would be mailed or transmitted on or before the date indicated with the United States Postal Service with sufficient postage as first class mail on the date shown below in an envelope addressed to Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

DOCSOC1:171975.1 701470-4074 D2W/D2W Applicant Appl. No. Examiner

Docket No.

Shashidhar Sathyanarayana 10/791352 John F. Ramirez 701470.4074

INFORMATION DISCLOSURE STATEMENT FILING PROVISION:

\boxtimes	This IF	OS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b),
_		nin three months of the filing date of the application, which is not a continued
		·
•		pplication filed under § 1.53(d); or (2) within three months of entry of the national
		orth in 37 CFR § 1.491; or (3) before the mailing of a first Office action on the
		before the mailing of a first Office action after filing a request for continued
examir	nation ι	under § 1.114. Thus, no fee is required.
		However, if the undersigned is in error in this regard, Applicant respectfully
		requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if
		applicable, and charge the fee due under 37 CFR §1.17(p) to the deposit
		account referenced below.
	\boxtimes	However, if the undersigned is in error in this regard, Applicant respectfully
		requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if
		applicable, and a statement under 37 CFR § 1.97(e) is included below, thus
		no fee is required.
	This IE	OS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office
action	on the	merits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance
under 3	37 CFF	R § 1.311.
		The fee due under 37 CFR § 1.17(p) is submitted herewith.
		A statement under 37 CFR § 1.97(e) is included below, thus no fee is
4		required. In the event that this IDS is not received before a Final Action or a
		Notice of Allowance, then Applicant respectfully requests that the Office
		consider the filing of these papers to be submitted under 37 CFR § 1.97(d)
		and charge the fee due under 37 CFR § 1.17(p) to the deposit account below.
	This ID	OS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37
CFR §	1.113	or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue
fee. A	statem	ent under 37 CFR § 1.97(e) is included below. The fee due under 37 CFR
§ 1.17(p) is su	ubmitted herewith.

Shashidhar Sathyanarayana

Applicant Appl. No. Examiner

10/791352

Docket No.

John F. Ramirez 701470.4074

	STATEMENT UNDER 37 CFR § 1.97(e):				
\boxtimes	Each item contained in this IDS was first cited in any communication from a foreign				
paten	patent office in a counterpart foreign application not more than three months prior to the filing of				
this IC	DS.				
	No item contained in this IDS was cited in a communication from a foreign patent office				
in a c	ounterpart foreign application, and, to the knowledge of the person signing this statement				
after i	making reasonable inquiry, no item of information contained in this IDS was known to any				
indivi	dual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this IDS.				
	Payment and/or Authorization to Charge Fees:				
	A check in the amount of is enclosed for the above fee(s).				
	Please charge to Deposit Account No. 15-0665 for the above fee(s).				
\boxtimes	The Commissioner is authorized to charge any fees required by the filing of these				
papers, and to credit any overpayment to Orrick, Herrington & Sutcliffe's Deposit Account					
No. 15-0665 .					
	Respectfully submitted,				
	ORRICK, HERRINGTON & SUTCLIFFE LLP				
Dated	By: David E. Wang Reg. No. 38,358				

ORRICK, HERRINGTON & SUTCLIFFE LLP 4 Park Plaza, Suite 1600 Irvine, CA 92614 949-567-6700 Telephone 949-567-6710 Facsimile

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

	ICLION ACT OF 1995, NO	persons are requ	ired to respond to a collection of information u		
Substitute for form 1449A/PTO			Complete if Known		
			Application Number	10/791,352	
OVE INFORMATION	DISCLOSUR	E	Filing Date	March 1, 2004	
FEB 1 3 2006 Syse as many sheets as necessary)			First Named Inventor	Shashidhar	
				Sathyanarayana	
			Art Unit	3737	
			Examiner Name	not yet assigned	
Sheet 0 1	of	1	Attorney Docket Number	701470.4074	
PADEMAN	- -				

	U.S. PA	ATENT DOCUMENTS	
	U.S. Patent Document	Publication Date	Name of Patentee or
Cite No.1	Number-Kind Code ^{2 (if known)}	MM-DD-YYYY	Applicant of Cited Document
AA	5924990 A	07-20-1999	NACHTOMY, et al

		U.S. Patent Document Cite No.1 Number-Kind Code ^{2 (if known)}	Cite No. ¹ Number-Kind Code ^{2 (if known)} MM-DD-YYYY

		FOREIGN PA	TENT DOCUMENTS		
Examiner		Foreign Patent Document	Publication Date	Name of Patentee or	
Initials	Cite No.1	Country ³ Number ⁴ Kind Code ^{5 (if known)}	MM-DD-YYYY	Applicant of Cited Document	T ⁶
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials'	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	CA	LABAN, M. et al, "ANGUS: A New Approach To Three-Dimensional Reconstruction Of Coronary Vessels By Combined Use Of Angiography and Intravascular Ultrasound," COMPUTERS IN CARDIOLOGY, 1995, VIENNA, AUSTRIA 10-13 September 1995, New York, NY, IEEE, US, September 10, 1995, pages 325-328	
	СВ	SCHWARZACHER, SEVERIN P. et al, "Enhancement of Spatial Orientation Of Intravascular Ultrasound Images With Side Holes In Guiding Catheters," AMERICAN HEART JOURNAL, vol. 135, no. 6 PART 1, June 1998 (1998-06), pages 1063-1066	
	CC	GONZALEZ-BARBOSA, J., et al: "Rover Localization In Natural Environments By Indexing Panoramic Images," PROCEEDINGS 2002 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (CAT. NO. 02CH37292) IEEE Piscataway, NJ, USA, vol. 2, 2002, pages 1364-1370	

Examiner	Date	T ,
Signature	Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is govern by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicants unique citation designation number (optional). ²See Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.